

PolyOne Geon™ Vinyl Dry Blend E6950 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Dry-Blend-E6950-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	46.9 MPa	6800 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	11.0 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	20.6 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
Dart Drop Total Energy	57.8 J/cm @Temperature 23.0 °C	0.108 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	200 J/cm @Temperature 23.0 °C	0.375 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C @Thickness 3.18 mm	165 °F @Thickness 0.125 in	Compression Molded, Annealed at 50 deg.C; ASTM D648
Flammability, UL94	V-0	V-0	UL 94
	5VA	5VA	UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	191 - 204 °C	376 - 399 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	The E6950 natural 0000 is the only NSF 51 listed color in this product.
Features	Medium Impact Resistance	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	1-41443-33-0000	ASTM D4216
	16354	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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